

Synthesis

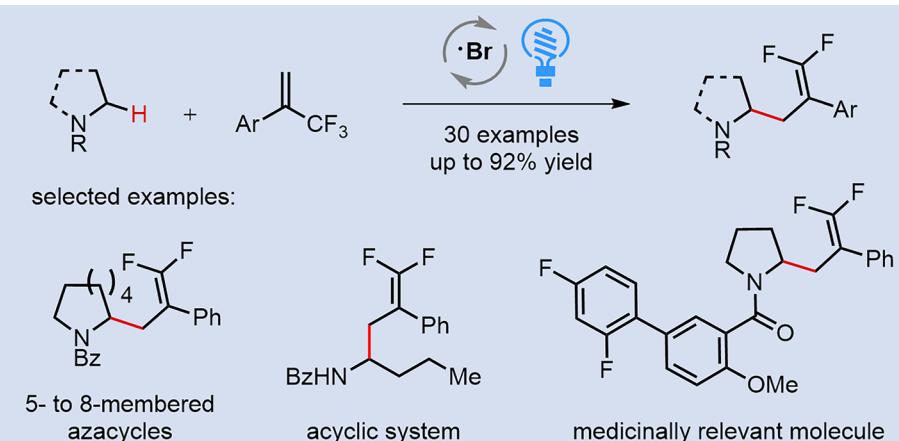
Reviews and Full Papers in Chemical Synthesis

June 4, 2024 • Vol. 56, 1657–1814

Special Topic

New Trends in Organic Synthesis from Chinese Chemists

Editor: Hongli Bao



Photoredox-Catalyzed $C(sp^3)$ -H Difluoroallylation of Amides

Y. Lin, X. Shu, H. Huo

11



Thieme

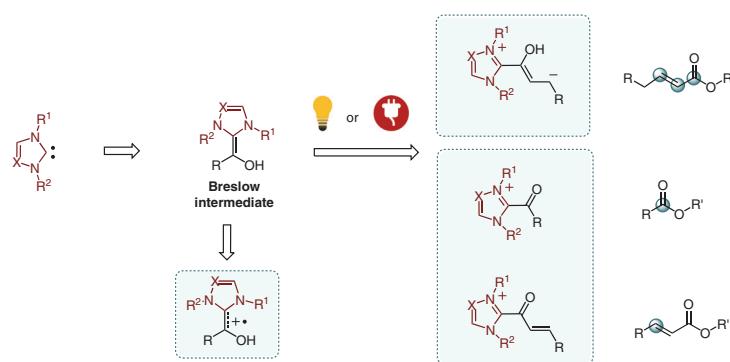
Synthesis

Synthesis 2024, 56, 1657–1676
DOI: 10.1055/a-2288-7553

H.-R. Yu
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F.-H. Cui
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P. R. of China

NHC-Mediated Photochemical/Electrochemical Synthesis of
Carbonyl Compounds

Review
1657



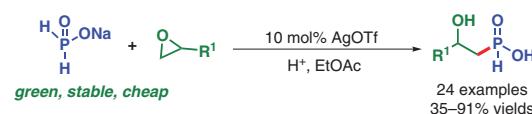
Synthesis

Synthesis 2024, 56, 1677–1686
DOI: 10.1055/a-2133-1963

D.-W. Qian
J. Yang
G.-W. Wang
S.-D. Yang^{*}
Lanzhou University,
P. R. of China

Synthesis of β-Hydroxyhydrophosphonic Acids from Inorganic
Sodium Hypophosphite

Feature
1677

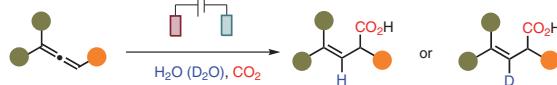


Synthesis 2024, 56, 1687–1694
DOI: 10.1055/a-2200-5332

1687

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J.-S. Zhong
H. Yan*
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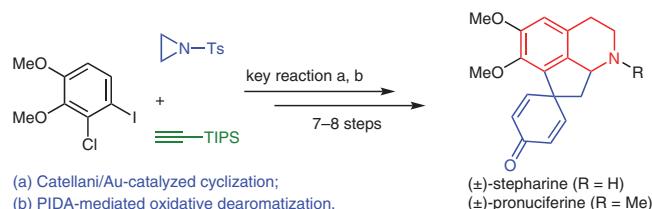


Synthesis 2024, 56, 1695–1701
DOI: 10.1055/a-1984-0755

1695

R. Chen
S. Jia
Y. Man
H.-G. Cheng*
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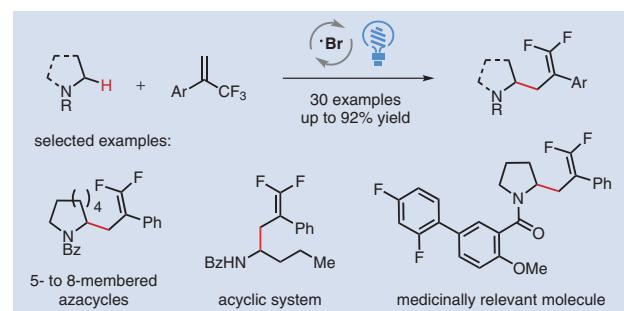


Synthesis 2024, 56, 1702–1710
DOI: 10.1055/s-0043-1763660

1702

Y. Lin
X. Shu
H. Huo*

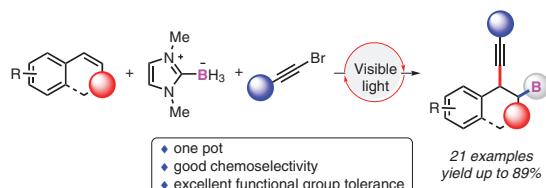
Xiamen University, P. R. of China



Synthesis 2024, 56, 1711–1718
DOI: 10.1055/s-0042-1751512

C. Zhu
S. Yao
J. Xie*

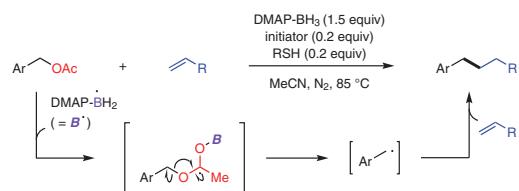
Nanjing University, P. R. of China



Synthesis 2024, 56, 1719–1726
DOI: 10.1055/s-0042-1751463

N.-N. Liu
X.-C. Wan
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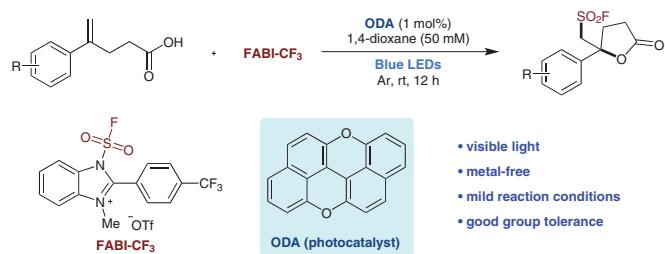
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Synthesis 2024, 56, 1727–1734
DOI: 10.1055/s-0042-1751535

X. Fang
X. Geng
P. Wang
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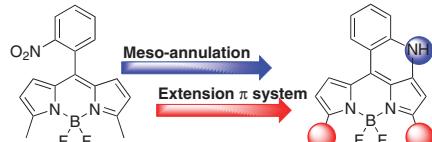
Fuzhou University, P. R. of China



Synthesis 2024, 56, 1735–1740
DOI: 10.1055/a-2226-4082

L. Chang
S. Zhou
X. Kong
L. Gai*
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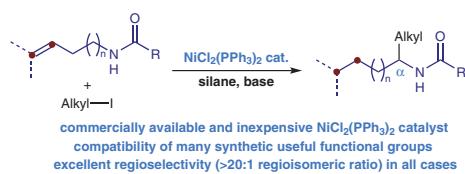
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Synthesis 2024, 56, 1741–1748
DOI: 10.1055/a-2204-8921

Q.-W. Zhu
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J.-W. Wang
W. Nie
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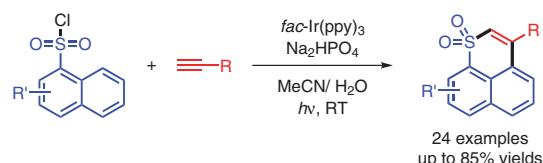
University of Science and Technology of China, P. R. of China



Synthesis 2024, 56, 1749–1755
DOI: 10.1055/a-2020-8828

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Synthesis

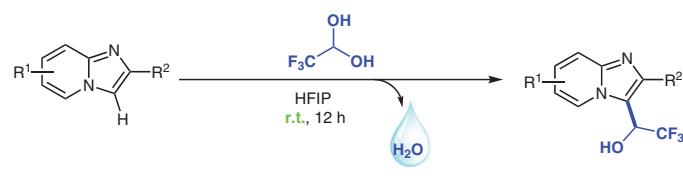
Synthesis 2024, 56, 1756–1764
DOI: 10.1055/a-2254-0907

Metal-Free Synthesis of Trifluoromethyl Carbinol-Containing Imidazo[1,2-*a*]pyridines via Dehydrative Coupling of Imidazo[1,2-*a*]pyridines with Trifluoroacetaldehyde**Paper**

1756

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P. R. of China



- 31 examples, up to 97% yield
- Transition-metal-free & oxidant-free

- Versatile transformations
- Scale-up reaction

Synthesis

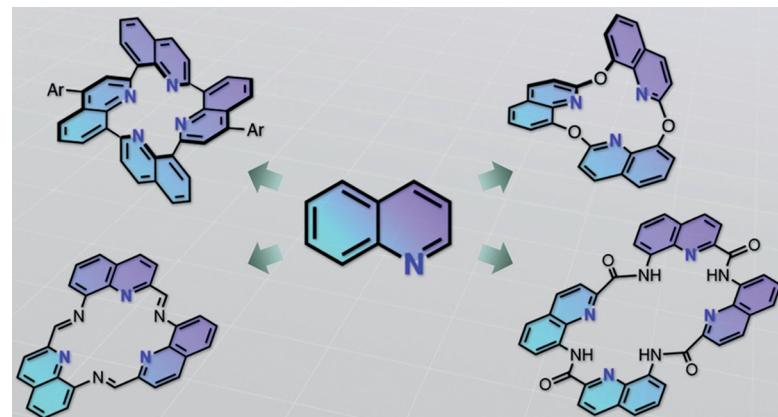
Synthesis 2024, 56, 1765–1774
DOI: 10.1055/s-0042-1751545

Recent Advances in Quinoline-Based Macrocycles: Synthesis, Properties, and Applications in Catalytic Reactions**Short Review**

1765

W. Xu**N. Kumagai***

Keio University, Japan

**Synthesis**

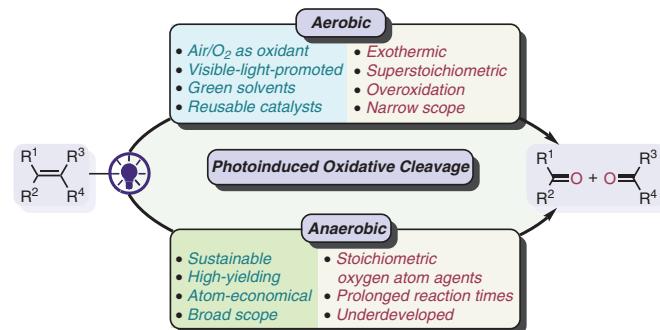
Synthesis 2024, 56, 1775–1786
DOI: 10.1055/s-0042-1751534

Recent Advances in Photoinduced Oxidative Cleavage of Alkenes**Short Review**

1775

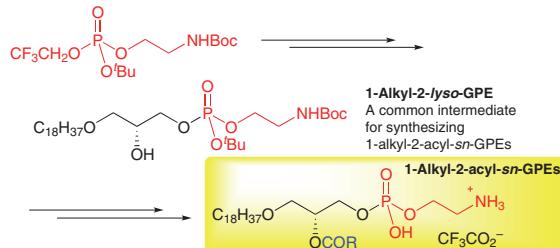
W. A. Hussain**M. Parasmam***

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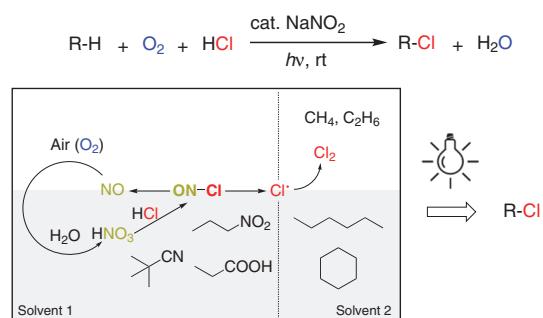


Synthesis**A Convenient Method for Synthesizing 1-Alkyl-2-acyl-*sn*-glycero-3-phosphoethanolamines****Paper**

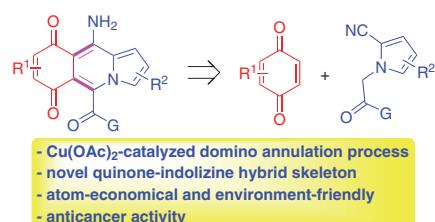
1787

Synthesis 2024, 56, 1787–1792
DOI: 10.1055/a-2257-0684**T. Okauchi*****K. Tsubaki****Y. Higuma****H. Shimooka****M. Kitamura**Kyushu Institute of Technology,
Japan**Synthesis****Visible-Light-Driven Oxidative Chlorination of Alkyl sp^3 C–H Bonds with HCl/Air at Room Temperature****Paper**

1793

Synthesis 2024, 56, 1793–1798
DOI: 10.1055/a-2261-3255**L. Xu****C. Mei****W. Lu***Shanghai Jiao Tong University,
P. R. of China**Synthesis****Access to 8-Aminoindolizine Fused with Quinone via Cu(OAc)₂-Catalyzed Domino [4+2] Annulation****Paper**

1799

Synthesis 2024, 56, 1799–1806
DOI: 10.1055/a-2259-3283**S. Lee****Y. Lee****W. Namkung*****I. Kim***Yonsei University,
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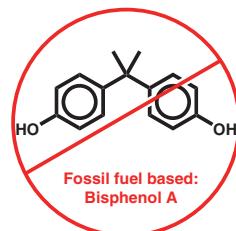
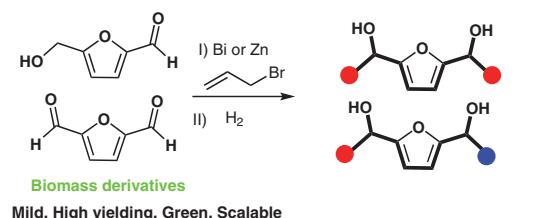
Synthesis 2024, 56, 1807–1814
DOI: 10.1055/a-2241-6966

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Mild, High yielding, Green, Scalable